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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/753,116	01/02/2001	Byeong-Ro Jeong	678-583 (P9652)	1919

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EXAMINER

PIZIALI, JEFFREY J

ART UNIT

PAPER NUMBER

2673

DATE MAILED: 08/12/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/753,116

Applicant(s)

JEONG, BYEONG-RO

Examiner

Jeff Piziali

Art Unit

2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 January 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 January 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in the Republic of Korea on December 31, 1999. It is noted, however, that applicant has not filed a certified copy of the 1999-68266 application as required by 35 U.S.C. 119(b).

Drawings

2. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationship is: between the "both ends of the bottom of the reflecting plate" (in dependent claim 2) and the "one end of the reflecting plate" (in independent claim 1). It is unclear whether the lamps share a single end of the reflecting plate, or are positioned on different

Art Unit: 2673

ends. Furthermore, it is unclear what claim 2 is referring to with the term, "the bottom of the reflecting plate" -- in so far as there exists no antecedent basis for such claim terminology.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

6. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Yoshihara et al. (6,115,016).

Regarding claim 1, Yoshihara discloses a back light device in a liquid crystal display module, the device comprising: a liquid crystal display [Fig. 1, 40]; a laminated reflecting plate [Fig. 1, 6] positioned on a bottom of the liquid crystal display; at least two lamps [Figs. 1 & 2, 7] of different color [Fig. 2; red, green, and blue] installed on one end of the reflecting plate and positioned a distance apart from each other; and a controller [Fig. 1, 9] for controlling light emission of the lamps, the light emitted by the lamps being diffused through the reflecting plate, wherein the colors emitted by the lamps are combined, and diffused light is irradiated according to an illumination control signal applied by the controller, and the illumination control signal causes the irradiated light to match a color according to a user's demand (see Fig. 3; Column 2, Line 27 - Column 3, Line 52).

Regarding claim 2, Yoshihara discloses the lamps comprise light emitting diodes [Figs. 1 & 2, 7] installed on both ends of the bottom of the reflecting plate (see Column 2, Lines 43-59).

Regarding claim 3, Yoshihara discloses a light emitting diode for emitting light of red, yellow, or blue color (see Figs. 2 & 3; Column 2, Line 43 - Column 3, Line 52).

Regarding claim 4, Yoshihara discloses each light emitting diode selectively emits the light color in response to the illumination control signal supplied by the controller (see Fig. 3; Column 2, Line 27 - Column 3, Line 52).

Regarding claim 5, this claim is rejected by the reasoning applied in the above rejection of claim 1.

Regarding claim 6, this claim is rejected by the reasoning applied in the above rejection of claim 2.

Regarding claim 7, this claim is rejected by the reasoning applied in the above rejection of claim 3.

Art Unit: 2673

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Suntola (US 4,907,862), Irwin (US 4,978,952), Gibbons et al. (US 5,122,791), Hunter (US 5,724,062), Kaneko (US 6,188,379), and Evanicky et al. (US 6,243,068) are cited to further evidence the state of the art pertaining to back light devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Piziali whose telephone number is (703) 305-8382. The examiner can normally be reached on Monday - Friday (6:30AM - 3PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (703) 305-4938. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.



J.P.

August 7, 2002



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